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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/611,968	07/03/2003	Herve Burgaud	06028.0020-00	3634
22852 7590 03/22/2007 FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER LLP			EXAMINER	
			ELHILO, EISA B	
901 NEW YORK AVENUE, NW WASHINGTON, DC 20001-4413		ART UNIT	PAPER NUMBER	
W/Minterest, 20 20001 1113			1751	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		03/22/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)			
	10/611,968	BURGAUD ET AL.			
Office Action Summary	Examiner	Art Unit			
	Eisa B. Elhilo	1751			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D/ - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tir will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).			
Status	•				
Responsive to communication(s) filed on <u>01 M</u> This action is FINAL . 2b)⊠ This Since this application is in condition for allower closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) ⊠ Claim(s) 1-10 and 12-36 is/are pending in the a 4a) Of the above claim(s) is/are withdray 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-6,9,10 and 12-36 is/are rejected. 7) ⊠ Claim(s) 7 and 8 is/are objected to. 8) □ Claim(s) are subject to restriction and/or	vn from consideration.				
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	epted or b) objected to by the drawing(s) be held in abeyance. Se ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal I	ate			

DETAILED ACTION

- 1 This action is responsive to the amendment filed on March 1, 2007.
- A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 3/1/2007 has been entered.
- The cancellation of claim 11 is acknowledged. Pending claims are 1-10 and 12-36.

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-6, 9-10 and 12-36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hoeffkes et al. (US 2002/0059682 A1) in view of Rudolf Benshein (US 3,634,013).

Hoeffkes et al. (US' 682 A1) teaches a hair dyeing composition comprising primary alcohol ethanol as an aldehyde precursor as claimed in claims 1, 6 and 9 (see page 11, paragraph, 0211), 0.001 to 1% of at least one enzyme of alcohol oxidase as claimed in claim 5 (see page, 1, paragraph, 0014 and page 7, paragraph, 0129), at least one heteroaromatic hydrazones (see page 2, paragraph, 0018), oxidation base of para-phenylenediamine in the amount of 0.2% as claimed in claims 13-14 (see page 2, paragraph, 0019 and page 14, paragraph, Example 10), oxidation coupler of resorcinol in the amount of 0.07% as claimed in claims 15-16 (see paragraph, 14,

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Example 10), direct dyes (substantive dyes) as claimed in claim 17 (see page 7, paragraph, 0127) and other oxidizing agent as claimed in claim 18 (see page 7, paragraph, 0129). Hoeffkes et al. (US' 682 A1) also teaches a method for dyeing hair comprising applying to the hair the dyeing composition as described above and after mixing the dyeing composition with the oxidizing composition (enzyme composition), the mixture is applied to the hair and left for 30 minutes and then rinsed out as claimed in claims 19-35 (see

The disclosure of Hoeffkes et al. (US' 682 A1) as described above, does not teach the claimed formula of the heteroaromatic hydrazones.

However, Hoeffkes et al. (US' 682 A1) clearly suggests the use of heterocyclic hydrazones in a hair dyeing composition (see page 2, paragraph, 0018).

Rudolf Benshein (US' 013) teaches in analogous art of hair dyeing formulation, a composition comprising a heterocyclic hydrazones compound having a formula similar to the claimed formula as claimed in claim 1 (see col. 2, the upper formulae) and wherein the amount of the heterocyclic hydrazones is 0.5 to 7% which within the claimed range as claimed in claim 12 (see col. 7, line 14).

Therefore, in view of teaching of the secondary reference, one having ordinary skill in the art at the time the invention was made would be motivated to modify the dyeing composition of Hoeffkes et al. (US' 682 A1) by incorporating the heterocyclic hydrazones compound as taught by Rudolf Benshein (US' 013) to make such a composition. Such a modification would be obvious to one having ordinary skill in the art because the primary reference of Hoeffkes et al. (US' 682 A1) suggests the use of heterocyclic hydrazones in the hair dyeing composition (see page 2, paragraph, 0018). Rudolf Benshein (US' 013) as a secondary reference clearly teaches

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the claimed formula of heterocyclic hydrazones compound and thus, a person of the ordinary skill in the art would be motivated to incorporate the claimed hydrazones as taught by Rudolf Benshein (US' 013) in the dyeing composition of Hoeffkes et al. (US' 682 A1) with a reasonable expectation of success for improving the dyeing properties of the composition and would expect such a composition to have similar properties to those claimed, absent unexpected result.

With respect to claims 2-4, it would have been obvious to one having ordinary skill in the art at the time the invention was made to formulate a dyeing composition comprising alcohol oxidase enzymes derived from any plant species to arrive at the claimed invention because Hoeffkes et al. (US' 682 A1) teaches similar hair dyeing composition comprising alcohol oxidase enzymes obtained from Stachybotrys species (see page 1, paragraph, 0012), and, thus, a person of the ordinary skill in the art would expect that alcohol oxidases as aldehyde generators would have similar properties in the dyeing compositions no matter from which source these enzymes are derived, and, would expect such a composition to have similar properties to those claimed, in the absence of contrary.

With respect to claim 36, it would have been obvious to one having ordinary skill in the art at the time the invention was made to separate the dyeing ingredients by utilizing a multi-compartment device because the reference clearly teaches that the enzyme preparation is mixed to the dyeing precursors (dyeing composition) directly prior to dyeing hair (see page 11, paragraph, 0235), which implies that the enzyme composition is kept separately from the dyeing composition, and, thus, a person of the ordinary skill in the art would utilize such a device in order to separate the dyeing composition from the enzymatic composition (oxidizing

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composition), and would expect such a composition to have similar properties to those claimed, absent unexpected results.

Allowable Subject Matter

Claims 7 and 8 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. The prior art of record do not teach or disclose a hair dyeing formulation comprising aldehyde precursors chosen the claimed amino acid species as claimed.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eisa B. Elhilo whose telephone number is (571) 272-1315. The examiner can normally be reached on M - F (8:00 -4:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Douglas McGinty can be reached on (571) 272-1029. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Eisa Elhilo

Primary Examiner Art Unit 1751